

Abstract

A delta robot has motor/gearing units (5), which are respectively assigned to an arm (2) and which are disposed on one side each of a triangle. Each motor/gearing unit (5) has a gearing (52), at least one gear step of which is tensioned in a rotationally symmetric manner. The gearing (52), by virtue of material-locking and/or positive-locking connection of gearing components, is free from backlash over the whole of the motional range of the gearing (52). This delta robot allows virtually all aspects fundamental to the delta robot to be optimized, especially the rigidity, the control characteristics, the spatial requirement, the speed and the positioning accuracy.